

## ABSTRACT

A method for decoding at least one signal transmitted by means of at least one antenna and received by means of at least one antenna, which method includes a symbol decoding step for producing at least one estimated symbol representative of at least one transmitted symbol carried by the received signal. The symbol decoding step is executed by a space-time decoder including a symbol decoder configured to produce an estimation of at least one symbol with respect to which estimation the transmitted symbol features a minimum mean square error. The minimum mean square error symbol decoder requires less operating computing power than other decoders currently used for decoding incoming symbols, like list sphere decoders.